

Form PTO-1449 (MODIFIED) INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026-0736	SERIAL NO. Unassigned
	APPLICANT Nicholas L. ABBOTT et al.	Serial No. of Parent Application: 09/784,679	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
MC6		5,091,318	25 Feb. 1992	Anawis et al.			
↓		5,712,103	27 Jan. 1998	Leavitt et al.			
		6,171,802	09 Jan. 2001	Woolverton et al.			
MC6		6,284,197	04 Sep. 2001	Abbott et al.			

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
MCF	DE 3617710 A1	04 Dec. 1986	Germany (No Translation)				X
	JP 02311822 A2	27 Dec. 1990	Japan	η			X
	JP 02311824 A2	27 Dec. 1990	Japan	η			X
	JP 03010222 A2	17 Jan. 1991	Japan	η			X
	JP 03039932 A2	20 Feb. 1991	Japan	η			X
	JP 04057024 A2	24 Feb. 1992	Japan	η			X
	JP 04057025 A2	24 Feb. 1992	Japan	η			X
	JP 04284423 A2	09 Oct. 1992	Japan	η			X
	JP 05134257 A2	28 May 1993	Japan	η			X
	JP 05134258 A2	28 May 1993	Japan	η			X
	JP 06175136 A2	24 Jun 1994	Japan	η			X
	JP 06194513 A2	15 Jul. 1994	Japan	η			X
	JP 06194662 A2	15 Jul. 1994	Japan	η			X
	WO 99/63329	09 Dec. 1999	PCT				
MCF	WO 99/64862	16 Dec. 1999	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MC		<p>Starkey, C.A. et al. "Evaluation of the Recombigen HIV-1 Latex Agglutination Test", <i>J. Clin. Microbiol.</i>, Vol. 28, No. 4, pp. 819-822, April 1990; published by the American Society for Microbiology (Washington D.C.).</p>
MC		<p>Häussling, L. et al. "Biotin-Functionalized Self-Assembled Monolayers on Gold: Surface Plasmon Optical Studies of Specific Recognition Reactions", <i>Langmuir</i>, Vol. 7, No. 9, pp. 1837-1840, September 1991; published by the American Chemical Society (Washington, D.C.).</p>

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MS		Jérôme, B., "Surface Effects and Anchoring in Liquid Crystals," <i>Rep. Prog. Phys.</i> Vol. 54, pp. 391-452, 1991; published by IOP publishing Ltd. (United Kingdom).
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		Charych, D.H. et al., "Direct Colorimetric Detection of a Receptor-Ligand Interaction by a Polymerized Bilayer Assembly", <i>Science</i> , Vol. 261, pp. 585-588, 30 July 1993; published by the American Association for the Advancement of Science (Washington D.C.).
		Cocchi, J.M. et al., "Comparison Between Direct Binding, Competition and Agglutination Assays in the Characterization of Polyclonal Anti-idiotypes Against Anti-HBs Human Monoclonal Antibodies," <i>Immunological Meth.</i> , Vol. 160, pp. 1-9, 1993; Elsevier Science Publishers.
		H. Weetall. "Preparation of Immobilized Proteins Covalently Coupled Through Silane Coupling Agents to Inorganic Supports," <i>Applied Biochemistry and Biotechnology</i> , Vol. 41, pp. 157-188, 1993; published by Humana Press Inc. (Totowa, NJ)
		Kuby, J., <i>Immunology</i> , Second Edition (1994), pp. 147-150; W.H. Freeman and Company (New York, NY).
		Cornell, B.A. et al., "A Biosensor that uses Ion-Channel Switches," <i>Nature</i> , Vol. 387, pp. 580-583, 5 June 1997; published by Nature Publishing (New York, NY).
		Lin, V. et al., "A Porous Silicon-Based Optical Interferometric Biosensor," <i>Science</i> , Vol. 278, pp. 840-843, 31 October 1997; published by the American Association for the Advancement of Science (Washington, D.C.).
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✓		Gupta, V. K. et al., "Optical Amplification of Ligand-Receptor Binding Using Liquid Crystals," <i>Science</i> , Vol. 279, pp. 2077-2080, 27 March 1998; published by the American Association for the Advancement of Science (Washington D.C.).
MC		Dancil, K. S. et al., "A Porous Silicon Optical Biosensor: Detection of Reversible Binding of IgG to a Protein A-Modified Surface," <i>J. Am. Chem. Soc.</i> , Vol. 121 pp. 7925-7930, 1999; published by the American Chemical Society (Washington D.C.).
		Naoka, M. et al., "Ferroelectric Liquid Crystal Alignment Films Utilizing Poly (DL amino acids) and Fibrous Proteins," <i>Kobunshi Ronbunshu</i> , Vol. 56, No. 6, pp. 396-400, June 1999. English-language abstract is at the end of the documents NO TRANSLATION
MS	3	Kim, S-R. et al., "Orientations of Liquid Crystals on Mechanically Rubbed Films of Bovine Serum Albumin: A Possible Substrate for Biomolecular Assays Based on Liquid Crystals," <i>Anal. Chem.</i> , Vol. 72, No. 19, pp. 4646-4653, 1 October 2000; published by the American Chemical Society (Washington D.C.).
EXAMINER		DATE CONSIDERED <u>8/6/05</u>
*	EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.	